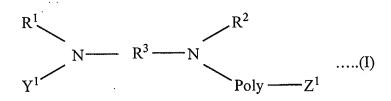
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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A modified conjugated diene polymer comprising a homopolymer of a conjugated diene compound or a copolymer of a conjugated diene compound and an aromatic vinyl compound and characterized by the following formula (I):



(wherein R^1 and R^2 are independently an alkyl or aryl group having a carbon number of 1-20, a substituted silyl group or a hydrogen atom; R^3 is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom unless-provided that it does not have an active proton; Y^1 is a substituted silyl group or a hydrogen atom; a part of R^1 , R^2 , R^3 and Y^1 may be bonded to each other to form a cyclic structure; Poly is a homopolymer part of a conjugated diene compound or a copolymer portion of a conjugated diene compound and an aromatic vinyl compound; Z^1 is an alkali metal, an alkaline earth metal salt or an alkaline earth metal alkyl group, or a residue produced by reacting with a carbanion reactive compound, or a hydrogen atom provided that when Z^1 is an alkali metal, an alkali earth metal salt or an alkaline eatch metal alkyl group, none of R^1 , R^2 and Y^1 is the hydrogen atom).

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2. (original) A modified conjugated diene polymer according to claim 1, wherein R^2 in the formula (I) is an alkyl or aryl group having a carbon number of 1-20.

- 3. (original) A modified conjugated diene polymer according to claim 1, wherein the conjugated diene compound is 1,3-butadiene or isoprene.
- 4. (original) A modified conjugated diene polymer according to claim 1, wherein the aromatic vinyl compound is styrene.
- 5. (original) A modified conjugated diene polymer according to claim 1, wherein said polymer is a copolymer of the conjugated diene compound and the aromatic vinyl compound.
- 6. (previously presented): A modified conjugated diene polymer according to claim 1, wherein said polymer has a Mooney viscosity ML₁₊₄ (100°C) of 10-150.
- 7. (previously presented): A modified conjugated diene polymer according to claim 1, wherein said polymer is a modified conjugated diene polymer obtained by modifying a modified conjugated diene polymer wherein Z^1 in the formula (I) is an alkali metal, an alkaline earth metal salt or an alkaline earth metal alkyl group with a carbanion reactive compound, in which Z^1 in the formula (I) is a residue produced by reacting with the carbanion reactive compound.
- 8. (previously presented): A modified conjugated diene polymer according to claim 7, wherein the carbanion reactive compound used in the modification is a compound including at

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least one of C=X (X is O, S or C) and an epoxy group as a carbanion reaction site and a nitrogencontaining functional group, a silicon-containing compound, or a tin-containing compound.

- 9. (previously presented): A modified conjugated diene polymer according to claim 8, wherein the carbanion reactive compound used in the modification is at least one selected from the group consisting of 4-dimethylamino benzophenone, 4-diethylamino benzophenone, 4,4'-bis(diethylamino) benzophenone, 4-dimethylamino benzophenone, 4-dimethylamino benzaldehyde, 4-diethylamino benzaldehyde, 1,1-bis(4-dimethylaminophenyl) ethylene, 1,1-bis(4-diethylaminophenyl) ethylene, 1,1-dimethoxy trimethylamine, 4-dimethylaminobenzylidene aniline, N,N-dimethylformamide, N,N-diethylformamide, N,N-diethylacetamide, 4-pyridylamide, 4-pyridyl-ethyleneoxide, 4-vinylpyridine, 2-vinylpyridine, dicyclohexyl carbodiimide, ε-caprolactam, N-methyl-ε-caprolactam, 1,3-dimethyl-2-imidazolidinone, N-methylpyrrolidone, phenylisocyanate, phenylthioisocyanate and diisocyanate diphenylmethane.
- 10. (original) A modified conjugated diene polymer according to claim 8, wherein the carbanion reactive compound used in the modification is a coupling agent represented by the following formula (II):

$$R^4_{a}Z^2X^1_{b}$$
 (II)

(wherein R^4 is independently selected from an alkyl group having a carbon number of 1-20, a cycloalkyl group having a carbon number of 3-20, an aryl group having a carbon number of 6-20 and an aralkyl group having a carbon number of 7-20; Z^2 is tin or silicon atom; X^1 is

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independently chlorine or bromine atom; and a is an integer of 0-3 and b is an integer of 1-4 provided that a+b=4).

11. (previously presented): A modified conjugated diene polymer according to claim 8, wherein the carbanion reactive compound used in the modification is at least one selected from the group consisting of a hydrocarbyloxysilane compound represented by the following formula (III):

$$A^1 - R^5$$
 $Si - (OR^7)_{3-n}$ (III)

[wherein A¹ is a monovalent group having at least one functional group selected from (thio)epoxy, (thio)isocyanate, (thio)ketone, (thio)aldehyde, imine, amide, isocyanuric acid triester, (thio)carboxylic acid hydrocarbylester, a metal salt of (thio)carboxylic acid, carboxylic anhydride, a halide of carboxylic acid, carbonic acid dihydrocarbylester, cyclic tertiary amine, non-cyclic tertiary amine, nitrile, pyridine, sulfide, multi-sulfide, an alkali metal salt of amine, al alkaline earth metal salt of amine, silazane and disilazane; R⁵ is a single bond or a divalent inactive hydrocarbon group; R⁶ and Rⁿ are independently a monovalent aliphatic hydrocarbon group having a carbon number of 1-20 or a monovalent aromatic hydrocarbon group having a carbon number of 6-18; n is an integer of 0-2; when plural ORⁿs are existent, these ORⁿs may be same or different; active proton and onium salt is not included in the molecule] and/or a partial condensate thereof, and a hydrocarbyloxysilane compound represented by the following formula (IV):

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$$R^{8}_{p}$$
-Si- $(OR^{9})_{4-p}$ (IV)

(wherein R⁸ and R⁹ are independently a monovalent aliphatic hydrocarbon group having a carbon number of 1-20 or a monovalent aromatic hydrocarbon group having a carbon number of 6-18; p is an integer of 0-2; when plural OR⁹s are existent, these OR⁹s may be same or different; active proton and onium salt is not included in the molecule) and/or a partial condensate thereof.

- 12. (previously presented): A modified conjugated diene polymer according to Claim 1, characterized by the further modification of a modified conjugated diene polymer wherein Y¹ in the formula (I) is a hydrogen atom with at least one of a compound having an isocyanate group and a condensate thereof.
- 13. (currently amended): A polymerization initiator characterized by the following formula (V):

$$R^1$$
 N
 R^3
 N
 M^1
 N

(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom <u>provided thatunless</u> it has does not have an active proton; Y² is a substituted silyl group; a part of R¹, R², R³ and Y² may be bonded to each other to form a cyclic structure; M¹ is an alkali metal, or an alkaline earth metal <u>salt or an alkaline earth metal alkyl group</u>).

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14. (currently amended): A polymerization initiator solution resulting from the addition of a diamine compound represented by the following formula (VI):

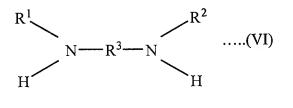
(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a hydrogen atom; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom unless-provided that it has does not have an active proton; a part of R¹, R² and R³ may be bonded to each other to form a cyclic structure) with a silyl compound represented by the following formula (VII):

$$Y^2-X^2 (VII)$$

(wherein Y^2 is a substituted silyl group; X^2 is one selected from the group consisting of a halogen atom, a thioalkyl group having a carbon number of 1-20, cyano group and trifluoromethylsulfonyl group) and the subsequent addition of an organic alkali metal compound or an organic alkaline earth metal compound thereto.

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15. (currently amended): A method of producing a polymerization initiator, characterized in that (i) a diamine compound of represented by the following formula (VI):



(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a hydrogen atom; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hereto atom provided that it does not have an active proton; a part of R¹, R² and R³ may be bonded to each other to form a cyclic structure) is added with a silyl compound of represented by the following formula (VII):

$$Y^2-X^2....(VII)$$

(wherein Y² is a substituted silyl group; X² is one selected from the group consisting of a halogen atom, a thioalkyl group having a carbon number of 1-20, cyano group and trifluoromethylsulfonyl group) to form a silylated diamine compound represented by the following formula (VIII):

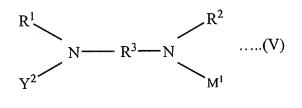
$$R^1$$
 $N \longrightarrow R^3 \longrightarrow N$
 R^2
 $M \longrightarrow R^3 \longrightarrow N$
 M

(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom unlessprovided that it has does not have an active

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proton; Y^2 is a substituted silyl group; a part of R^1 , R^2 , R^3 and Y^2 may be bonded to each other to form a cyclic structure); and

(ii) the said silylated diamine compound is added with an organic alkali metal compound or an organic alkaline earth metal compound to form a polymerization initiator of represented by the following formula (V)



(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom provided that it has does not have an active proton; Y² is a substituted silyl group; a part of R¹, R², R³ and Y² may be bonded to each other to form a cyclic structure; M¹ is an alkali metal, an alkaline earth metal salt or an alkaline earth metal alkyl group).

16. (original) A method of producing a polymerization initiator according to claim 15, wherein X^2 in the formula (VII) is a halogen atom.

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17. (currently amended): A method of producing a modified conjugated diene polymer, characterized in that (i) thea diamine compound represented by of the formula (VI):

$$R^{1}$$
 $N \longrightarrow R^{3} \longrightarrow N$
 H
 $N \longrightarrow R^{3} \longrightarrow N$
 H
 $N \longrightarrow R^{3} \longrightarrow N$
 $M \longrightarrow R^{3} \longrightarrow$

(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a hydrogen atom; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hereto atom provided that it does not have an active proton; a part of R¹, R² and R³ may be bonded to each other to form a cyclic structure) is added with thea silyl compound of the following formula (VII):

$$Y^2-X^2....(VII)$$

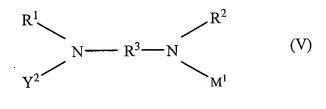
(wherein Y² is a substituted silyl group; X² is one selected from the group consisting of a halogen atom, a thioalkyl group having a carbon number of 1-20, cyano group and trifluoromethylsulfonyl group) to form a silylated diamine compound of represented by the following formula (VIII);

$$R^{1}$$
 $N - R^{3} - N$
 H
 $N - R^{3} - N$
 H

(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-

12 provided that it may include a hetero atom provided that it has does not have an active proton; Y^2 is a substituted silyl group; a part of R^1 , R^2 , R^3 and Y^2 may be bonded to each other to form a cyclic structure);

(ii) the silylated diamine compound is added with thean organic alkali metal compound or the organic alkaline earth metal compound to form the polymerization initiator represented by the following formula (V);

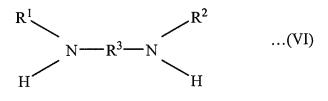


wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom provided that it has does not have an active proton; Y² is a substituted silyl group; a part of R¹, R², R³ and Y² may be bonded to each other to form a cyclic structure; M¹ is an alkali metal, an alkaline earth metal salt or an alkaline earth metal alkyl group), and

- (iii) the polymerization initiator is used to polymerize a conjugated diene compound or polymerize a conjugated diene compound and aromatic vinyl compound.
- 18. (original) A modified conjugated diene polymer obtained by using a polymerization initiator solution as claimed in claim 14 and polymerizing a conjugated diene compound or a conjugated diene compound and an aromatic vinyl compound.

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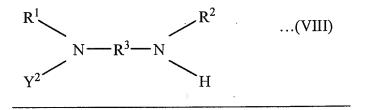
19. (currently amended): A method of producing a modified conjugated diene polymer, characterized in that (i) thea diamine compound of the following formula (VI):



(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a hydrogen atom; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hereto atom provided that it does not have an active proton; a part of R¹, R² and R³ may be bonded to each other to form a cyclic structure) is added with a the-silyl compound represented by of the following formula (VII):

$$Y^2-X^2....(VII)$$

(wherein Y² is a substituted silyl group; X² is one selected from the group consisting of a halogen atom, a thioalkyl group having a carbon number of 1-20, cyano group and trifluoromethylsulfonyl group) to form a silylated diamine compound of represented by the following formula (VIII);



(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom provided that it has does not have an active proton; Y²

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is a substituted silyl group; a part of R¹, R², R³ and Y² may be bonded to each other to form a cyclic structure);

(ii) the silylated diamine compound is added with the an organic alkali metal compound or the organic alkaline earth metal compound to form the polymerization initiator of the formula (V):

$$R^{1}$$
 $N \longrightarrow R^{3} \longrightarrow N$
 M^{1}
 (V)

wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom provided that it has does not have an active proton; Y² is a substituted silyl group; a part of R¹, R², R³ and Y² may be bonded to each other to form a cyclic structure; M¹ is an alkali metal, an alkaline earth metal salt or an alkaline earth metal alkyl group);

(iii) the polymerization initiator is added to a solution containing a conjugated diene compound to produce a low molecular weight polymer represented by the following formula (IX):

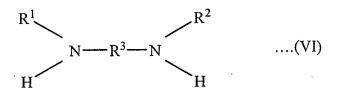
$$R^1$$
 $N \longrightarrow R^3 \longrightarrow N$
 R^2
 $N \longrightarrow R^3 \longrightarrow N$
 $N \longrightarrow N$
 N

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(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom unlessprovided that it has does not have an active proton;, Y² is a substituted silyl group M¹ is an alkali metal, or an alkaline earth metal salt or an alkaline earth metal alkyl group; a part of R¹, R², R³ and Y² may be bonded to each other to form a cyclic structure; Oli is an oligomer or polymer portion formed by polymerizing 3-300 conjugated diene compounds); and

- (iv) the low molecular weight polymer is added to a solution containing a conjugated diene compound or a solution containing a conjugated diene compound and an aromatic vinyl compound.
- 20. (currently amended): A method of producing a modified conjugated diene polymer, characterized in that (i) thea diamine compound represented by of the following formula (VI):



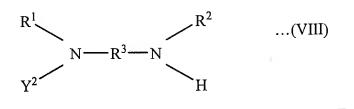
(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a hydrogen atom; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hereto atom provided that it does not have an active proton; a part of R¹, R² and R³ may be bonded to each other to form a cyclic structure) is added with a the silyl compound represented by the following formula (VII):

$$Y^2-X^2.....(VII)$$

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(wherein Y² is a substituted silyl group; X² is one selected from the group consisting of a halogen atom, a thioalkyl group having a carbon number of 1-20, cyano group and trifluoromethylsulfonyl group) to form a silylated diamine compound represented by the following formula (VIII):



(wherein R¹ and R² are independently an alkyl or aryl group having a carbon number of 1-20 or a substituted silyl group; R³ is an alkylene or arylene group having a carbon number of 1-12 provided that it may include a hetero atom provided that it has does not have an active proton; Y² is a substituted silyl group; a part of R¹, R², R³ and Y² may be bonded to each other to form a cyclic structure);

- (ii) the silylated diamine compound is added to a solution containing a conjugated diene compound or a solution containing a conjugated diene compound and an aromatic vinyl compound; and
- (iii) the said-solution is further added with an organic alkali metal compound or an organic alkaline earth metal compound.
- 21. (previously presented): A rubber composition characterized as including a modified conjugated diene polymer as claimed in claim 1 as a rubber component.

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22. (original) A rubber composition according to claim 21, wherein a content of the modified conjugated diene polymer is not less than 10% by mass in the rubber component.

- 23. (original) A rubber composition according to claim 21, which is sulfur-crosslinking.
- 24. (original) A rubber composition according to claim 21, which is compounded with 10-100 parts by mass in total of carbon black and/or an inorganic filler per 100 parts by mass of the rubber component.
- 25. (original) A rubber composition according to claim 24, wherein 10-100 parts by mass of silica as the inorganic filler is compounded per 100 parts by mass of the rubber component.
- 26. (previously presented): A modified conjugated diene polymer according to Claim 7, characterized by the further modification of a modified conjugated diene polymer wherein Y¹ in the formula (I) is a hydrogen atom with at least one of a compound having an isocyanate group and a condensate thereof.